

FIG. 1

idiopathic hemochromatosis

Bf, C2, C4F, C4S, 21-OH

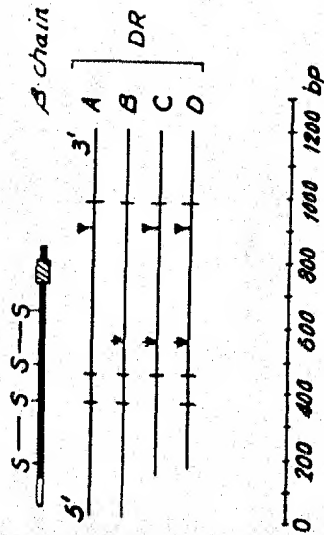


FIG. 4

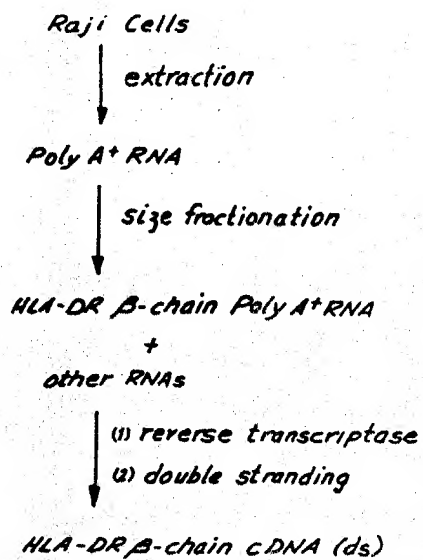
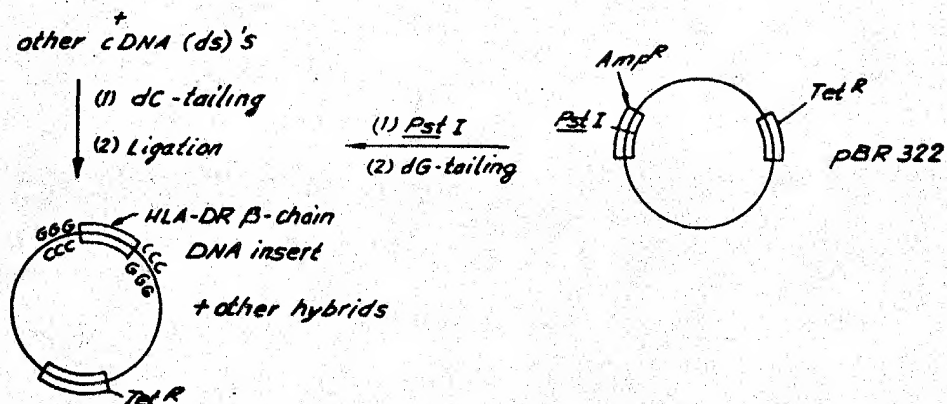


FIG. 2



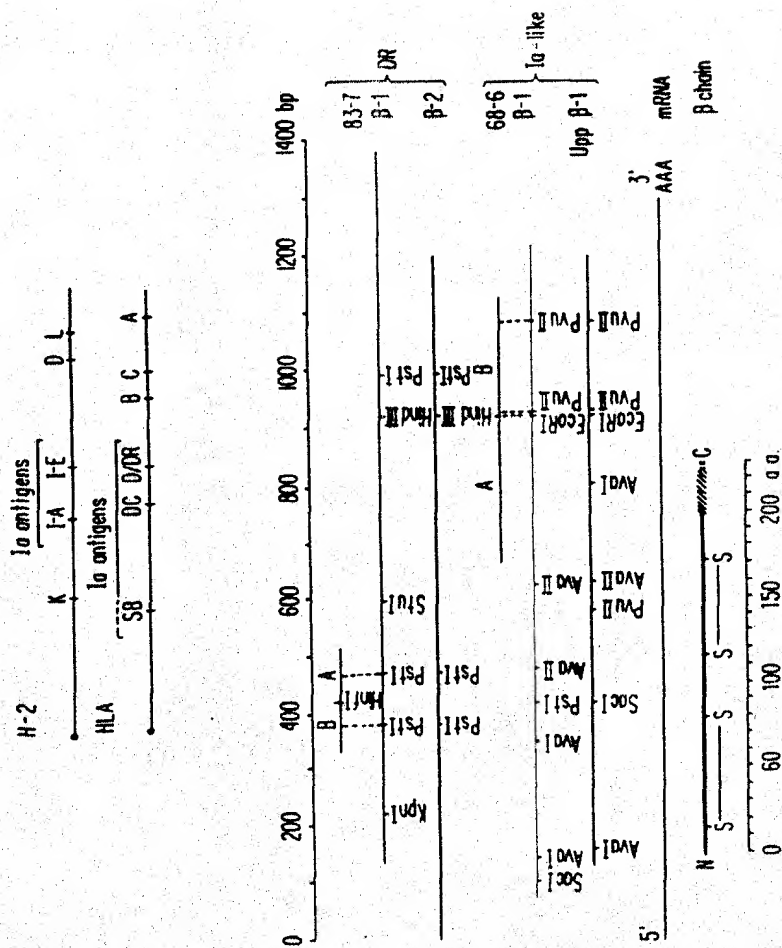
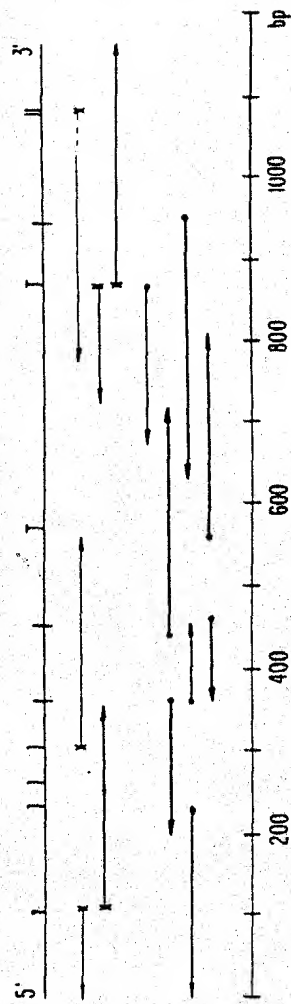


FIG. 3

FIG. 5



50
 E Y R A V R E L G R P D A E 299
 GAG TAC CGG GCG GTG AGG GAG CTG GGG CGG CCT GAT GCC GAG
 60
 Y W N S Q K D L L E Q K R G 341
 TAC TGG AAC AGC CAG AAG GAC CTC CTG GAG CAG AAG CGG GGC
 80
 Q V D N Y C R H N Y G V V E 383
 CAG GTG GAC AAT TAC TGC AGA CAC AAC TAC GGG GTT GTG GAG
 90
 S F T V Q R R V H P Q V T V 425
 AGC TTC ACA GTG CAG CGG CGA GTC CAT CCT CAG GTG ACT GTG
 110
 Y P A K T Q P L Q H H N L L 467
 TAT CCT GCA AAG ACC CAG CCC CTG CAG CAC AAC CTC CTG
 120
 V C S V S G F Y P G S I E V 509
 GTC TGC TCT GTG AGT GGT TTC TAT CCA GGC AGC ATT GAA GTC

FIG. 5B

210

FIG. 5C

220
 G A G L F I Y F R N Q K G H
 GGG GCC GGG CTG TTC ATC TAC TTC AGG AAT CAG AAA GGA CAC 803

 230
 S G L Q P T G F L S
 TCT GGA CTT CAG CCA ACA GGA TTC CTG AGC TGA AGTGCAGATGA 847
 CAATTAAAGGAAGAAATCTTCTTCCCCAGCTTTGCAGGATGAAAAAGCTTTCCCGCC 902
 TGGCTGTTATTCTTCCACGAGAGAGGGCTTTCTCAGGACCTAGTTGCTACTGGTT 957
 CAGCAACTGCAGAAAAATGTCCCTTGTGGCTTCCCTCAGTTCCCTGCCCTTGGCC 1012
 TGAAGTCCCAGCATTGATGGCAGCGCCTCATCTTCAACTTTTGTGCTCCCCCTTTG 1067
 CCTAAACCCTATGGCCTCCTGTGCATCTGTACTCACCCTGTACCACAAACACATT 1122
 ACATTATTAAATGTTTCTCAAAGATGGAGTTAAAAAAA(C)_n 1160

FIG. 5D

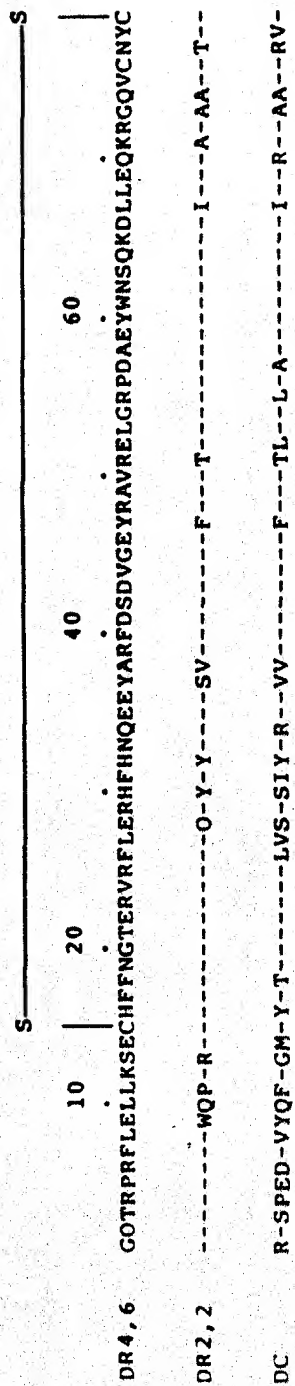


FIG. 6A

	80		100
DR4,6	RHNYGVVESFTVQRRVHPQVTVYPAKTQPLQHHNLLV		
DR2,2	-----Q-K-----S-----		
DC	-----QLELRT-L-----E-T--IS-SR-EA-N-----		

FIG. 6B

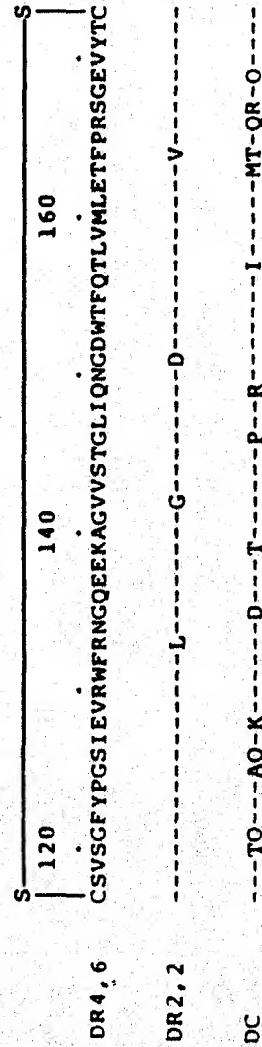


FIG. 6C

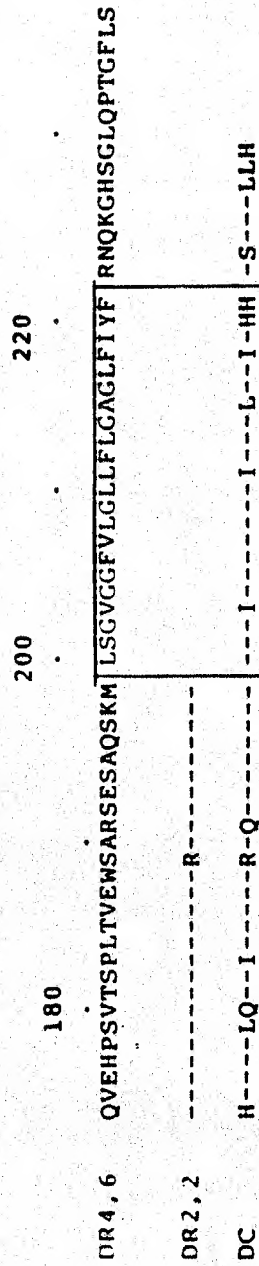


FIG. 6D

FIG. 7

A GTT CTC CCT GAG TGA GAC TCA CCT GCT CCT CTG GCC CCT GGT CCT GTG CTC CTG TTC TCC AGC ATG GTG TGT CTG AAG TTC CCT CCA GGA 85

6 GGC TCC TGC ATG GCA GCT CTG ACA GTG ACA CTG ATG GTG TGT AGC TCC CCA CTG GCT TTT GCT GGG GAC ACC CGA CCA CGT TTC TTG 172

10 GAG CAG GTT AAA CAT GAG TGT CAT TTC AAC GGG ACC GAG CCG GTG CGG TTC CTG GAC AGA TAC TTC TAT CAC CAA GAG GAG TAC 259

40 V R F D S D V G E Y R A 50 T E R V R F L CTG GAC AGA TAC TTC TAT CAC CAA GAG GAG TAC 346

70 L L E GAG CAG AAG CGG GCC GCG GTG GAC ACC TAC TGC AGA CAC AAC TAC GGG CTT GGT GAG AGC TTC ACA GTG CAG CGG CGA GTC 433

100 Y P E V T V Y P A K T Q P L CTG CAG CAC CAC AAC CTG CTC GTG TGC TCT GTG AAT GGT TTC TAT CCA 520

130 GGC AGC ATT GAA GTC AGG TGC CGG AAC GGC CAG GAA GAG AAG ACT GGG GTG GTG TCC ACA GGC L CTG ATC CAG AAT GGA GAC TGG 607

FIG. 7A

I ACC TTC QAG ACC TAC GTG ATG CTG GAA ACA GTT CCT CGG AGT GGA GAG GTT TAC ACC TGC CAA GTG GAG CAC CCA AGC CTG ACG AGC 694
 160 170 180
 P CCT CTC ACA GTG GAA TGG AGA GCA CGG TCT GAA TCT GCA CAG AGC AAG ATG CTG AGT GGA GTC GGG GGC TTC GTG GGC CTG CTC 781
 190 200 210
 F L G A G L F I Y F R N Q K G H S G L Q P I G F L S 237
 TTC CTT GGG GCC GGG CTG TTC ATC TAC TTG AGG AAT CAG AAA GGA CAC TCT GGA CTT CAG CCA ACA GGA TTC CTG AGC TGA AGT GAA 868
 220 230
 GAT GAC CAC ATT CAA GGA AGA ACC TTC TGC CCC AGC TTT GCA GGA TGA AAC ACT TCC CCG CTT GGC TCT CAT TCT TCC ACA AGA GAG 955
 ACC TTT CTC CGG ACC TGG TTG CTA CTG GTT CAG CAG CTC TGC AGA AAA TGT CCT CCC TTG TGG CTG CCT CAG CTC GTA CCT TTG GCC 1042
 TGA AGT CCC AGC ATT AAT GGC AGC CCC TCA TCT TCC AAG TTT TGT GCT CCC CTT TAC CTA ATG CTT CCT GCG TCC CAT GCA TCT GTA 1129
 CTC CTG CTG TGC CAC AAA CAC ATT ACA TTA TTA AAT GTT TCT CAA ACA TGG AGT TAA AAA AAA AAA AAA AAA AAA AA 1215

FIG. 8

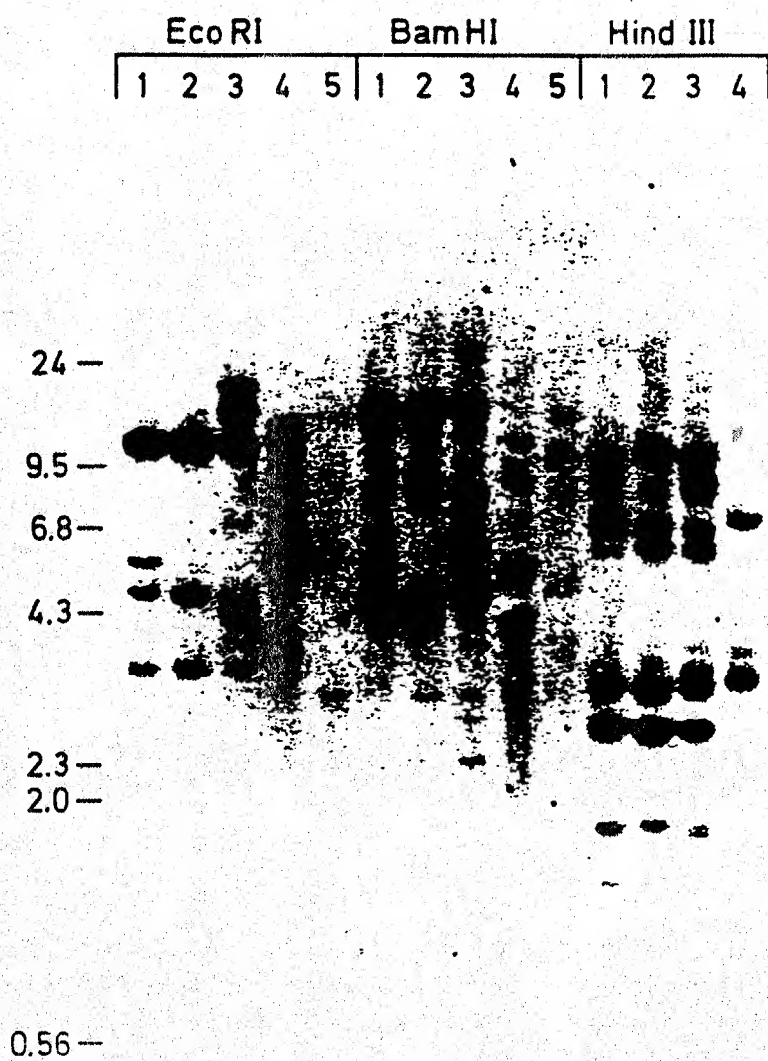


FIG. 9

Region I

AA	8	9	10	11	12	13	14
	L	E	L	L	K	S	E
HLA-DR- β -A	TTG GAG CTG CTT AAG TCT GAG						
HLA-DR- β -	TTG GAG CAG GTT AAA CAT GAG						
	L	E	Q	V	K	H	E

Region II

AA	26	27	28	29	30	31	32
	F	L	E	R	H	F	H
HLA-DR- β -A	TTC CTG GAG AGA CAC TTC CAT						
HLA-DR- β -	TTC CTG GAC AGA TAC TTC TAT						
	F	L	D	R	Y	F	Y

Region III

AA	72	73	74	75	76	77	78
	R	G	Q	V	D	N	Y
HLA-DR- β -A	CGG GGC CAG GTG GAC AAT TAC						
HLA-DR- β -	CGG GCC GCG GTG GAC ACC TAC						
	R	A	A	V	D	T	Y